

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पब्लिसिटी की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 15.07.2013
Date of Reporting : 16.07.2013

I. Regional Availability/Demand:

Evening Peak (20:00 Hrs) MW				Off Peak (03:00 Hrs) MW				Day Energy (Net MU)	
Demand Met	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
41304	2402	43706	49.97	38688	1260	39948	50.03	947.9	55.81

* Half hourly (two 15 minutes block—one block each before and after the designated time) average frequency

II. A. State's Load Details (At States periphery) in MUs:

State	State's Control Area Generation (Net MU)				Drawal Schedule (Net MU)	Actual Drawal (Net MU)	UI (Net MU)	UI [OD:(+ve), UD: (-ve)]	
	Thermal	Hydro	Renewable/others \$	Total				Consumption (Net MU)	Shortages * (MU)
Punjab	51.10	17.17		68.28	125.37	126.41	1.04	194.69	19.85
Haryana	67.47	0.62		68.09	102.52	101.92	-0.59	170.01	0.00
Rajasthan	85.53	0.02	27.68	113.23	40.33	29.60	-10.72	142.83	0.00
Delhi	21.76			21.76	79.09	80.65	1.56	102.40	0.58
UP	119.69	4.37	1.20	125.27	121.79	117.21	-4.58	242.48	33.37
Uttarakhand		18.10		18.10	18.21	16.90	-1.31	35.00	0.32
HP		23.52		23.52	1.15	1.18	0.03	24.70	0.00
J & K		13.85	0.00	13.85	19.71	16.04	-3.67	29.89	1.70
Chandigarh				0.00	6.11	5.92	-0.19	5.92	0.00
Total	345.55	77.66	28.88	452.09	514.28	495.84	-18.44	947.92	55.81

* Shortage furnished by the respective constituent. \$ Others include UP Co-generation and JK Diesel

II. B. State's Demand Met in MWs:

State	Evening Peak (20:00 Hrs) MW				Off Peak (03:00 Hrs) MW				Day Energy MU	
	Demand Met	Shortage	UI	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction	STOA/PX transaction	
Punjab	8601	790	110	1923	8381	600	55	1923	46.16	
Haryana	7609	0	-70	1666	6560	0	84	1580	38.33	
Rajasthan	5775	0	-619	-15	5956	0	-247	-37	-0.70	
Delhi	4513	62	200	250	3812	0	-71	-141	7.25	
UP	10316	1450	-343	1036	10366	660	30	1427	21.54	
Uttarakhand	1655	0	-2	303	1307	0	-106	222	5.90	
HP	977	0	-83	-1072	863	0	21	-1224	-25.36	
J&K	1592	100	-48	-124	1227	0	-221	-141	-7.14	
Chandigarh	267	0	-11	0	216	0	-16	0	0.13	
Total	41304	2402	-866	3968	38688	1260	-472	3609	86.11	

* STOA figures are at sellers boundary & PX figures are at regional boundary.

III. Regional Entities :

Entity	Station/ Constituent	Inst. Capacity (Effective) MW	Declared Capacity(MW)	Peak MW (Gross)	Off Peak MW (Gross)	Energy (Net MU)	Average Sentout(MW)	Schedule Net MU	UI [OG:(+ve), UG: (-ve)]	
									Net MU	Net MU
A. NTPC	Singrauli STPS	2000	1623	2053	1383	35.15	1465	34.17	0.98	
	Rihand I STPS	1000	915	846	803	18.58	774	18.51	0.07	
	Rihand II STPS	1000	970	445	387	18.98	791	19.02	-0.03	
	Rihand III STPS	500	480	459	407	9.18	382	9.12	0.06	
	Dadri I STPS	840	810	840	852	17.88	745	18.33	-0.45	
	Dadri II STPS	980	480	493	445	10.02	417	10.15	-0.14	
	Unchahar I TPS	420	399	369	348	8.11	338	8.17	-0.06	
	Unchahar II TPS	420	403	389	315	7.69	321	7.74	-0.05	
	Unchahar III TPS	210	201	153	153	3.36	140	3.46	-0.11	
	ISTPP (Jhajhar)	1500	1425	687	655	14.49	604	14.95	-0.46	
	Dadri GPS	830	781	385	389	9.03	376	9.50	-0.47	
	Anta GPS	419	398	258	256	6.12	255	6.14	-0.03	
	Auraiya GPS	663	611	303	312	7.23	301	7.19	0.04	
	Sub Total (A)	10782	9495	7680	6705	165.81	6909	166.45	-0.64	
B. NPC	NAPS	440	156	176	182	3.75	156	3.74	0.00	
	RAPS- B	440	387	437	433	9.38	391	9.29	0.09	
	RAPS- C	440	210	236	233	4.94	206	5.04	-0.10	
	Sub Total (B)	1320	753	849	848	18.07	753	18.07	-0.01	
C. NHPC	Chamera I HPS	540	534	540	540	10.35	431	10.27	0.08	
	Chamera II HPS	300	300	304	305	7.26	302	7.21	0.04	
	Chamera III HPS	231	231	229	216	5.36	223	5.53	-0.18	
	Bairasuil HPS	180	179	150	80	1.86	77	1.65	0.21	
	Salal-HPS	690	627	656	657	15.07	628	15.10	-0.03	
	Tanakpur-HPS	94	65	75	59	1.53	64	1.56	-0.03	
	Uri-HPS	480	442	455	447	10.65	444	10.65	0.00	
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00	
	Dulhasi-HPS	390	387	406	398	9.41	392	9.32	0.09	
	Sewa-II HPS	120	119	37	0	0.68	28	0.67	0.01	
Sub Total (C)	3305	2884	2852	2702	62.16	2590	61.96	0.20		
D. NJPC	Natpaa Jhakri	1500	1605	1622	1625	38.66	1611	38.52	0.14	
	Sub Total (D)	1500	1605	1622	1625	38.66	1611	38.52	0.14	
E. THDC	Tehri HPS	1000	885	885	893	21.48	895	21.24	0.24	
	Sub Total (E)	1400	1261	1266	1171	29.75	1239	29.49	0.26	
F. BBMB	Bhakra HPS	1480	1345	1359	1365	32.75	1365	32.27	0.48	
	Dehar HPS	990	608	825	610	15.00	625	14.60	0.40	
	Pong HPS	396	180	312	66	4.53	189	4.32	0.21	
	Sub Total (F)	2866	2133	2496	2041	52.28	2178	51.20	1.08	
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	170	221	4.73	197	4.23	0.50	
	KWHEP HPS(IPP)	1000	0	1199	1199	28.53	1189	28.50	0.02	
	Malana Stg-II HPS	100	0	112	113	2.70	112	2.49	0.21	
	Shree Cement TPS	300	0	253	170	4.78	199	5.26	-0.48	
	Budhil HPS(IPP)	70	0	69	69	1.65	69	1.66	-0.01	
	Sub Total (G)	1662	0	1803	1772	42.39	1766	42.14	0.24	
H. Total Regional Entities (A-G)	22836	18131	18568	16864	409.10	17046	407.83	1.28		

I. State Entities	Station	Effective Installed Capacity (MW)	Peak MW	Off Peak MW	Energy(MU)	Average(Sent out MW)	
Punjab	Guru Gobind Singh TPS (Ropar)	1260	1260	1260	27.56	1148	
	Guru Nanak Dev TPS(Bhatinda)	440	195	204	4.25	177	
	Guru Hargobind Singh TPS(L.mbt)	920	926	933	19.30	804	
	Goindwal(GVK)		0	0	0.00	0	
	Thermal (Total)	2620	2381	2397	51.10	2129	
	Total Hydro	1148	879	672	17.17	716	
	Total Punjab	3768	3260	3069	68.28	2845	
Haryana	Panipat TPS	1367	399	374	9.38	391	
	DCRTPP (Yamuna nagar)	600	279	258	6.16	257	
	Faridabad GPS (NTPC)	432	332	396	8.38	349	
	RGTPP (khedar) (IPP)	1200	1012	842	22.97	957	
	Magnum Diesel (IPP)	25	0	0	0.00	0	
	Jhajjar(CLP)	1320	969	557	20.58	858	
	Thermal (Total)	4944	2991	2427	67.47	2811	
	Total Hydro	62	23	23	0.62	26	
		Total Haryana	5006	3014	2450	68.09	2837
	Rajasthan	kota TPS	1240	951	967	22.91	954
suratgarh TPS		1500	767	848	20.44	852	
Chabra TPS		500	192	190	4.47	186	
Dholpur GPS		330	118	93	2.77	115	
Ramgarh GPS		111	32	29	0.86	36	
RAPS A (NPC)		300	176	176	4.24	177	
Barsingar (NLC)		250	147	156	3.51	146	
Giral LTPS		250	71	59	0.95	40	
Rajwest LTPS (IPP)		1080	556	556	13.76	573	
VSLP LTPS (IPP)		135	0	0	0.00	0	
Kalisindh Thermal		600	0	0	0.00	0	
Kawai(Adani)		660	485	485	11.62	484	
Thermal (Total)		6956	3495	3559	85.53	3564	
Total Hydro		550	0	27	0.02	1	
Wind power		2191	1030	1077	25.22	1051	
Biomass		91	28	28	0.68	28	
Solar		201	0	0	1.79	75	
Renewable/Others (Total)		2483	1058	1105	27.68	1153	
		Total Rajasthan	9989	4553	4691	113.23	4718
UP		Anpara TPS	1630	1352	1339	28.90	1204
	Obra TPS	1288	348	347	7.60	317	
	Paricha TPS	1140	598	480	12.90	538	
	Panki TPS	210	155	140	3.10	129	
	Harduaganj TPS	665	381	385	8.00	333	
	Tanda TPS (NTPC)	440	395	392	9.65	402	
	Roza TPS (IPP)	1200	998	788	22.65	944	
	Anpara-C (IPP)	1200	810	797	18.92	788	
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	365	314	7.98	333	
	Thermal (Total)	8223	5402	4982	119.69	4987	
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0	
	Other Hydro	527	203	146	4.37	182	
	Cogeneration	981	50	50	1.20	50	
		Total UP	10131	5655	5178	125.27	5219
	Uttarakhand	Total Hydro	1303	799	747	18.10	754
Total Uttarakhand		1303	799	747	18.10	754	
Delhi	Rajghat TPS	135	68	28	1.14	47	
	Delhi Gas Turbine	282	186	75	3.43	143	
	Pragati Gas Turbine	330	291	296	7.04	293	
	Rithala GPS	95	0	0	0.00	0	
	Bawana GPS	686	0	0	0.00	0	
	Badarpur TPS (NTPC)	705	485	460	10.16	423	
	Thermal (Total)	2232	1030	859	21.76	907	
		Total Delhi	2232	1030	859	21.76	907
HP	Baspa HPS (IPP)	330	303	303	7.64	319	
	Malana HPS (IPP)	86	102	104	2.47	103	
	Other Hydro	589	572	559	13.41	559	
	Total HP	1005	977	966	23.52	980	
J & K	Baglihar HPS (IPP)	450	436	440	10.51	438	
	Other Hydro	323	140	139	3.34	139	
	Gas/Diesel/Others	183	0	0	0.00	0	
		Total J & K	956	576	579	13.85	577
Total State Control Area Generation		34390	19864	18539	452.09	18837	
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			4950	4202	97.33	4055	
Total Regional Availability(Gross)		57226	43382	39605	958.52	39938	

IV. Total Hydro Generation:

Regional Entities Hydro	10364	9717	9072	218.80	9117
State Control Area Hydro	5368	3457	3160	77.66	3236
Total Regional Hydro	15731	13174	12232	296.46	12352

V(A). Inter Regional Exchange [Import (+ve)/Export (-ve)] [Linkwise]

Element	Peak(20:00 Hrs)	Off Peak(03:00 Hrs)	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW	MW	Import	Export	Import	Export	
Vindhychal B/B	500	500	500	0	9.29	0.00	9.29
Gwalior-Agra (D/C)	1713	1405	1774	0	33.99	0.00	33.99
Zerda-Kankroli	-77	-61	0	289	0.00	3.68	-3.68
Zerda-Bhinmal	-82	-76	0	330	0.00	3.76	-3.76
Malanpur-Auraiya	-50	-27	0	111	0.00	1.53	-1.53
Badod-Kota/Morak	-49	-48	0	143	0.00	1.88	-1.88
Mundra-Mohindergarh(HVDC)	994	693	996	0	20.82	0.00	20.82
Sub Total WR	2949	2386			64.09	10.85	53.24
Pusauli Bypass	-310	-203	307	394	0.00	5.68	-5.68
MZP- GKP (D/C)	684	716	836	0	16.73	0.00	16.73
Patna-Balia(D/C)	640	525	666	0	12.35	0.00	12.35
B'Sharif-Balia (D/C)	467	383	509	0	9.01	0.00	9.01
Pusauli-Balia	64	27	86	0	0.40	0.00	0.40
Gaya-Fatehpur (765 Kv)	81	47	155	0	2.10	0.00	2.10
Pusauli-Sahupuri	158	182	201	0	4.29	0.00	4.29
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-38	-40	0	45	0.00	0.90	-0.90
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	255	179	315	0	5.78	0.00	5.78
Sub Total ER	2001	1816			50.66	6.58	44.09
Total IR Exch	4950	4202			114.75	17.42	97.33

V(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ISGS/LT Schedule (MU)			Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
ER	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
38.25	3.42	41.67	9.82	43.23	0.74	-4.53	2.33	-2.33

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR Inclds Mndra	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
54.56	70.88	125.43	44.09	53.24	97.33	-10.47	-17.64	-28.11

VI. Frequency Profile <----- % of Time Frequency ----->

<48.80	<49.0	<49.20	<49.50	<49.7	49.5 - 50.2	49.7-49.8	49.7 - 50.2	> 50.00	> 50.2
0.00	0.00	0.00	0.00	0.00	89.40	1.00	89.40	73.00	10.60

Frequency (Hz)				Average Frequency Hz	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX (Hz)	MIN (Hz)
Freq	Time	Freq	Time					
50.36	6.06	49.74	20.10	50.07	0.15	0.10	50.35	49.92

VII. Voltage profile 400 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)			
		Voltage(KV)	Time	Voltage (KV)	Time	<380 kV	<390 kV	>420 kV	>430 kV
Rihand	400	407	07:10	394	22:32	0.0	0.0	0.0	0.0
Gorakhpur	400	417	07:24	398	20:24	0.0	0.0	0.0	0.0
Bareilly	400	415	06:06	391	14:36	0.0	0.0	0.0	0.0
Kanpur	400	414	18:04	399	22:33	0.0	0.0	0.0	0.0
Dadri	400	414	06:05	391	14:35	0.0	0.0	0.0	0.0
Ballabgarh	400	422	06:04	398	14:36	0.0	0.0	3.1	0.0
Bawana	400	415	06:05	394	14:37	0.0	0.0	0.0	0.0
Bassi	400	425	04:04	403	12:42	0.0	0.0	15.5	0.0
Hissar	400	405	06:05	386	14:37	0.0	5.9	0.0	0.0
Moga	400	410	08:01	397	12:46	0.0	0.0	0.0	0.0
Abdullapur	400	408	06:04	394	12:06	0.0	0.0	0.0	0.0
Nalagarh	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Kishenpur	400	416	06:03	405	14:29	0.0	0.0	0.0	0.0
Wagoora	400	416	07:07	397	20:44	0.0	0.0	0.0	0.0

VIII. Voltage profile 765 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)			
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV
Fatehpur	765	764	17:51	730	14:37	0.0	38.5	0.0	0.0
Balia	765	766	08:03	725	14:38	2.4	12.4	0.0	0.0
Moga	765	788	08:02	759	14:36	0.0	0.0	0.0	0.0
Agra	765	802	06:06	760	22:33	0.0	0.0	0.5	0.0
Bhiwani	765	784	06:05	767	00:10	0.0	0.0	0.0	0.0
Unnao	765	769	08:03	732	14:43	0.0	25.4	0.0	0.0

IX. Reservoir Parameters:

Name of Reservoir	Parameters		Present Parameters		Last Year		Last day	
	FRL (m)	MDDL (m)	Level (m)	Energy (MU)	Level (m)	Energy (MU)	Inflow (m³/s)	Usage (m³/s)
Bhakra	513.59	445.62	498.09	1018.16	472.50	308.66	1367.22	1047.72
Pong	426.72	384.05	409.62	464.36	394.03	111.75	417.36	278.38
Tehri	829.79	740.04	790.10	454.00	818.65	982.26	798.15	551.00
Koteshwar	612.50	598.50	608.90	3.93	NA	NA	549.00	518.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	283.29	258.66
Rihand	288.22	252.98	254.51	57.30	254.17	44.30	NA	NA
RPS	352.80	343.81	349.56	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	297.73	NA	NA	NA	NA	NA
RSD	527.91	487.91	511.72	144.00	501.50	144.00	322.70	428.12

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 15.07.2013 :

1.Normal Weather.

XIII. Synchronisation of new generating units :

XIV. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / /substation :

XV. Tripping of lines in pooling stations :

XVI. Complete generation loss in a generating station :

1. Dhauliganga (280 MW) closed down till 30.09.2013 due to flooding of power house.
2. Vishnuprayg(UPPCL) (400 MW) Closed due to High Silt level in river water.
3. MANERI BHALI STG-1(90MW)/Uttarakhand closed down due to flush flooding.

Report for : 15.07.2013

पारी प्रभाती अभियंता / SHIFT CHARGE ENGINEER